## PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTH	ORITY				
То:			PCT		
TROY A. GROETKEN MCANDREWS, HELD & MALLOY, LTD.					
34TH FLOOR 500 W. MADISON STREET			TTEN OPINION OF THE		
CHICAGO, IL 60661		INTERNATIO	ONAL SEARCHING AUTHORITY		
			(PCT Rule 43bis.1)		
		Date of mailing day/month/year)	13 SEP 2004		
Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below			
15389WO01					
International application No.	International filing date (da	ry/month/year)	Priority date (day/month/year)		
PCT/US04/04030	11 February 2004 (11.02.2	2004)			
International Patent Classification (IPC)					
IPC(7): C11D 11/00, 1/12, 1/26; C07C 34, 39	303/00; B01J 8/00 and US 0	Cl.: 510/537, 495,	536; 516/200, DIG. 3; 422/135, 149; 558/31,		
Applicant		-			
STEPAN COMPANY					
1. This opinion contains indications re	lating to the following items:	:			
Box No. I Basis of the opinion					
Box No. II Priority					
Box No. III Non-establ	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of un	Lack of unity of invention				
Box No. V Reasoned applicabili	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain do	cuments cited				
Box No. VII Certain de	fects in the international app	application			
Box No. VIII Certain ob	Certain observations on the international application				
2. FURTHER ACTION					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
For further options, see Form PC7	Г/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the ISA/	US	Authorized office	er A. P. CALOR		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Lorna M. Douy	yon and Walk		
P.O. Box 1450					
Alexandria, Virginia 22313-1450		Telephone No.	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (		

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

			-
nternational	application	No.	

PCT/US04/04030

Box No. I Basis of this opinion	
1. With regard to the language, this opinion has been established on the basis of the international application in the language.	guage in which
it was filed, unless otherwise indicated under this item.  This opinion has been established on the basis of a translation from the original language into the following la	nguage,
which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and	23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessial invention, this opinion has been established on the basis of:	essary to the
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
in written format	
in computer readable form	
c. time of filing/furnishing	
contained in international application as filed.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
	•
In addition, in the case that more than one version or copy of a sequence listing and/or table relating the filed or furnished, the required statements that the information in the subsequent or additional copies is iden the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	ereto has been tical to that in
4. Additional comments:	

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/04030

YES

NO

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims 1-37

Claims NONE

NO

Inventive step (IS)

Claims 1-25, 33-37

YES

Claims 26-32

NO

## 2. Citations and explanations:

Industrial applicability (IA)

Claims 26-32 lack an inventive step under PCT Article 33(3) as being obvious over Silvis (US Patent No. 4,544,493).

Silvis teaches a detergent product prepared from a neutralization process which contains at least 73% of detergent salt, such as sodium lauryl sulfate (see col. 12, lines 9-16). In Example 3, Silvis teaches a dried product containing 94.0% of sodium lauryl sulfate (see col. 17, lines 26-36). Silvis, however, fails to teach the recited process for making the detergent salt.

Claims 1-37

Claims NONE

Any difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the examiner has found a substantially similar product as in the applied prior art, the burden of proof is shifted to the applicant to establish that their product is patentably distinct, not the examiner to show the same process of making.

Claims 26-32 lack an inventive step under PCT Article 33(3) as being obvious over Bauer et al. (US Patent No. 5,739,097).

Bauer teaches surfactant granules which contain from 10 to 100% by weight of surfactants based on the final granules (see col. 7, lines 39-44). In Example 4, Bauer teaches dust-free, non-tacky granules which comprises 92% by weight surfactant, that is, sodium alkyl benzenesulfonate (see col. 8, line 15 to col. 9, 26). Bauer, however, fails to teach the recited process for making the surfactant granules.

Any difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the examiner has found a substantially similar product as in the applied prior art, the burden of proof is shifted to the applicant to establish that their product is patentably distinct, not the examiner to show the same process of making.

Claims 26-32 lack an inventive step under PCT Article 33(3) as being obvious over Emery et al. (US Patent No. 6,514,930).

Emery teaches detergent particles with anionic surfactant content of at least 50%, 60%, 70% with a maximum amount of 90% by weight (see col. 6, lines 15-19). Emery, however, fails to teach the recited process for making the detergent salt.

Any difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the examiner has found a substantially similar product as in the applied prior art, the burden of proof is shifted to the applicant to establish that their product is patentably distinct, not the examiner to show the same process of making.

Claims 1-37 meet the criteria set out in PCT Article 33(2), because the prior art does not teach or fairly suggest a process for producing a high active surfactant product in the manner as those recited, the surfactant product thereof and the recited vacuum neutralizing reactor.

Claims 1-25 and 33-37 meet the criteria set out in PCT Article 33(3), because the prior art does not teach or fairly suggest a process for producing a high active surfactant product in the manner as those recited and the recited vacuum neutralizing reactor.

Claims 1-37 meet the criteria set out in PCT Article 33(4), and thus the claims meet industrial applicability because the subject matter claimed can be made or used in industry.